09/373984

Freeform Search

Database: US Pre-Grant Publication Full-Text Database; US Patents Full-Text Database; US OCR Full-Text Database; EPO Abstracts Database; JPO Abstracts Database; Derwent World Patents Index; IBM Technical Disclosure Bulletins

Term: L20 and (inactivat$3 near5 (enzyme or polymerase$1))

Display: 10 **Documents in Display Format:** - **Starting with Number** 11

Generate: ○ Hit List ◉ Hit Count ○ Side by Side ○ Image

Search | Clear | Interrupt

Search History

DATE: Friday, March 19, 2004 Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB=USPT,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ			
L21	L20 and (inactivat$3 near5 (enzyme or polymerase$1))	5	L21
L20	PCR near5 exten$3 near5 temperature$1	15	L20
L19	exten$3 near5 less near5 room temperature$1	15	L19
L18	l15 and PCR	0	L18
L17	L15 and PCR	0	L17
L16	L15 and (PCR or amplif$7)	0	L16
L15	exten$3 near5 less near5 room temperature$1	15	L15
L14	L13 and (inactivat$3 near5 (enzyme$1 or polymerase$1))	7	L14
L13	exten$3 near5 temperature$1 near5 PCR	22	L13
L12	l10 and inactivat$3	26	L12
L11	l10 and sixteen degree	0	L11
L10	L9 and synthesiz$5 cDNA	29	L10
L9	(PCR or amplif$7 or exten$3) near5 low$2 near5 temperature$1	4417	L9
L8	(PCR or amplif$7 or exten$3) near5 low$2 near5 temperature$1 near5	0	L8

	synthesiz$5 cDNA		
L7	l3 and (cDNA near5 synthes$5)	3	L7
L6	l3 and degree	38	L6
L5	l3 and amplitaq DNA	0	L5
L4	l3 and klenow	0	L4
L3	(PCR or amplif$7 or exten$3) near5 low temperature near5 heat$3	96	L3
L2	L1 and heat$3	3	L2
L1	klenow near5 temperature near5 PCR	3	L1

END OF SEARCH HISTORY

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 * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 12:07:44 ON 19 MAR 2004

=> file caplus medline biosis caplus
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                         0.21       0.21

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FILE 'BIOSIS' ENTERED AT 12:07:56 ON 19 MAR 2004
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=> s low##(10a)temperature(10a)exten####(10a)PCR
L1            3 LOW##(10A) TEMPERATURE(10A) EXTEN####(10A) PCR

=> s l1 and ((heat or inactivat###)(10a)(enzyme# or polymerase#))
L2            0 L1 AND ((HEAT OR INACTIVAT###)(10A)(ENZYME# OR POLYMERASE#))

=> dup rem l1
PROCESSING COMPLETED FOR L1
L3            2 DUP REM L1 (1 DUPLICATE REMOVED)

=> d l3 1-2 bib ab kwic

L3   ANSWER 1 OF 2  CAPLUS  COPYRIGHT 2004 ACS on STN
AN   2002:964473  CAPLUS
DN   138:34103
TI   Kits for low temperature cycle extension of
     DNA with high priming specificity during PCR
IN   Hong, Guo Fan; Yang, Yongjie; Zhu, Jia
PA   Shanghai Mendel DNA Center Co., Ltd, Peop. Rep. China
SO   PCT Int. Appl., 61 pp.
     CODEN: PIXXD2
DT   Patent
LA   English
FAN.CNT 2
     PATENT NO.         KIND  DATE           APPLICATION NO.  DATE
     ---------------    ----  --------       ---------------  --------
PI   WO 2002101004      A2    20021219       WO 2002-IB3341   20020605
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
             UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,
             TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
             CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
             BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
     US 2003087237      A1    20030508       US 2001-878131   20010608
PRAI US 2001-878131     A     20010608
     CN 2001-117603     A     20010430
AB   The invention relates to methods for extending a primer or a pair of
     primers in low-temperature cycle DNA amplification for cycle sequencing and
PCR.
     In particular, the methods contemplate the combined use of moderately
     thermostable DNA polymerases in the presence of a low concentration of glycerol
```

or ethylene glycol or the mixts. thereof, as an agent to reduce the melting temperature of DNA. Predistributed reaction mixts. of a high-fidelity and high processivity DNA polymerase stable at room temperature for several weeks in ready-to-use kits are also contemplated by the invention. In a preferred embodiment, the DNA polymerase is selected from Bacillus caldolyticus, Bacillus caldotenax or Bacillus stearothermophilus.

TI Kits for **low temperature** cycle **extension** of DNA with high priming specificity during **PCR**

IT Nucleic acid hybridization
PCR (polymerase chain reaction)
Temperature effects, biological
Test kits
(kits for **low** temperature cycle **extension** of DNA with high priming specificity during **PCR**)

L3 ANSWER 2 OF 2 MEDLINE on STN DUPLICATE 1
AN 89078178 MEDLINE
DN PubMed ID: 3203600
TI A programmable system to perform the polymerase chain reaction.
AU Weier H U; Gray J W
CS Biomedical Sciences Division, Lawrence Livermore National Laboratory, Livermore, CA.
NC HD17655 (NICHD)
SO DNA (Mary Ann Liebert, Inc.), (1988 Jul-Aug) 7 (6) 441-7.
Journal code: 8302432. ISSN: 0198-0238.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 198902
ED Entered STN: 19900308
Last Updated on STN: 19980206
Entered Medline: 19890209

AB An automated system is described that performs the cyclic temperature changes required for enzymatic amplification of specific DNA segments in vitro using the polymerase chain reaction (pcr). During **pcr**, oligonucleotide primer molecules are bound at **low temperature** to templates of heat-denatured DNA and **extended** on their 3' end using a thermostable DNA polymerase. The DNA denaturation, primer annealing, and extension is repeated several times under program control to accumulate a large number of identical copies of the DNA sequence between the primers. A microcomputer system controls the flow of 96 degrees C and 37 degrees C water through a 24-well sample holder so that the temperature in the samples in the holder varies as required for DNA denaturation, primer annealing, and DNA polymerization. The microcomputer automatically performs multiple thermal cycles and is sufficiently flexible that the temperature profile can be varied from cycle to cycle.

AB . . . cyclic temperature changes required for enzymatic amplification of specific DNA segments in vitro using the polymerase chain reaction (pcr). During **pcr**, oligonucleotide primer molecules are bound at **low temperature** to templates of heat-denatured DNA and **extended** on their 3' end using a thermostable DNA polymerase. The DNA denaturation, primer annealing, and extension is repeated several times. . .

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